

**ARIZONA GAME AND FISH DEPARTMENT
HABITAT PARTNERSHIP COMMITTEE
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

Game Branch / HPC Project Number: 14-611

PROJECT INFORMATION

Project Title: Redevelopment of AGFD Water Catchment 556

Region and Game Management Unit: Region VI, GMU 24A

Local Habitat Partnership Committee (LHPC):

- Payson

Was the project presented to the LHPC?

YES[x] NO[]

Has this project been submitted in previous years? YES[X] NO[]

If Yes, was it funded? YES[] NO[x] → **Funded HPC Project #(s):**

Project Type: Wildlife Water catchment redevelopment

Brief Project Summary:

This project proposal is a redevelopment of an AGFD water catchment (#556) located southeast of Apache Leap Mountain near Superior. The catchment was built in the 1960's and currently has brush growing thru the concrete apron as well as sediment seeping into the small capacity concrete tank. The current water holding capacity of this catchment is approximately 2000 gallons, which is significantly less than what the current systems holding tanks capacity is.

Big Game Wildlife Species to Benefit: mule deer, javelina, small game, various birds, and predators

Implementation Schedule (Month/Day/Year):

Project Start Date: 1/01/2015

Project End Date: 05/01/2015

Environmental Compliance:

NEPA Completed: Yes[] No[X] N/A[]

Projected Completion Date: 11/2014

State Historic Preservation Office - Archaeological Clearance:

Yes[] No[X] N/A[]

Projected Completion Date: 11/ 2014

Arizona Game and Fish Department EA Checklist: N/A[]

To be Completed by: AGED

Projected Completion Date: 12/2015

PROJECT FUNDING

Special Big Game License Tag Funds Requested: \$ 26,609

Cost Share or Matching Funds: \$3,810

Total Project Costs: \$ 30,419

PARTICIPANT INFORMATION

Applicant (please print):

Danny Rodriguez

Address:

7200 E University
Mesa, AZ 85207

E-mail:

jrodriguez@azgfd.gov

Telephone: 928-525-4380

Date: 08/21/15

AGFD Contact and Phone No. (If applicant is not AGFD personnel):

Danny Rodriguez 928-525-4380, Dustin Darveau 480-324-3555

Project has been coordinated with: AGFD Joe Currie, Natalie Robb, Ed Jarhke, Danny Rodriguez
USFS, ADA, and MDF

NEED STATEMENT – PROBLEM ANALYSIS:

AGFD catchment #556 was built in the 1960's and has since provided many years of water to wildlife. Weather abuse and vegetation encroachment have since worn out the concrete apron causing it to restrict flow by draining into the cracked areas. The catchment filter has become clogged over the years restricting flow of the water into the holding tank. The holding tank's concrete cover has shifted around many times and has since collected runoff and sediment, which drains into the main holding tank limiting the maximum water holding capacity. The concrete drinker is an old step style, but still doesn't allow for smaller wildlife to utilize due to the 6 inch plus steps.

The catchment should be redeveloped with a higher capacity system to ensure water is available during the summer when temperatures are high. The older system is a 500 gallon holding capacity compared to the new system that holds up to 10,000 gallons.

PROJECT OBJECTIVES:

The objective of this project is to provide year round water for all wildlife especially during years of bad droughts by utilizing a larger capacity water holding tank. Another objective is to provide a dependable structure that would last longer than the current system.

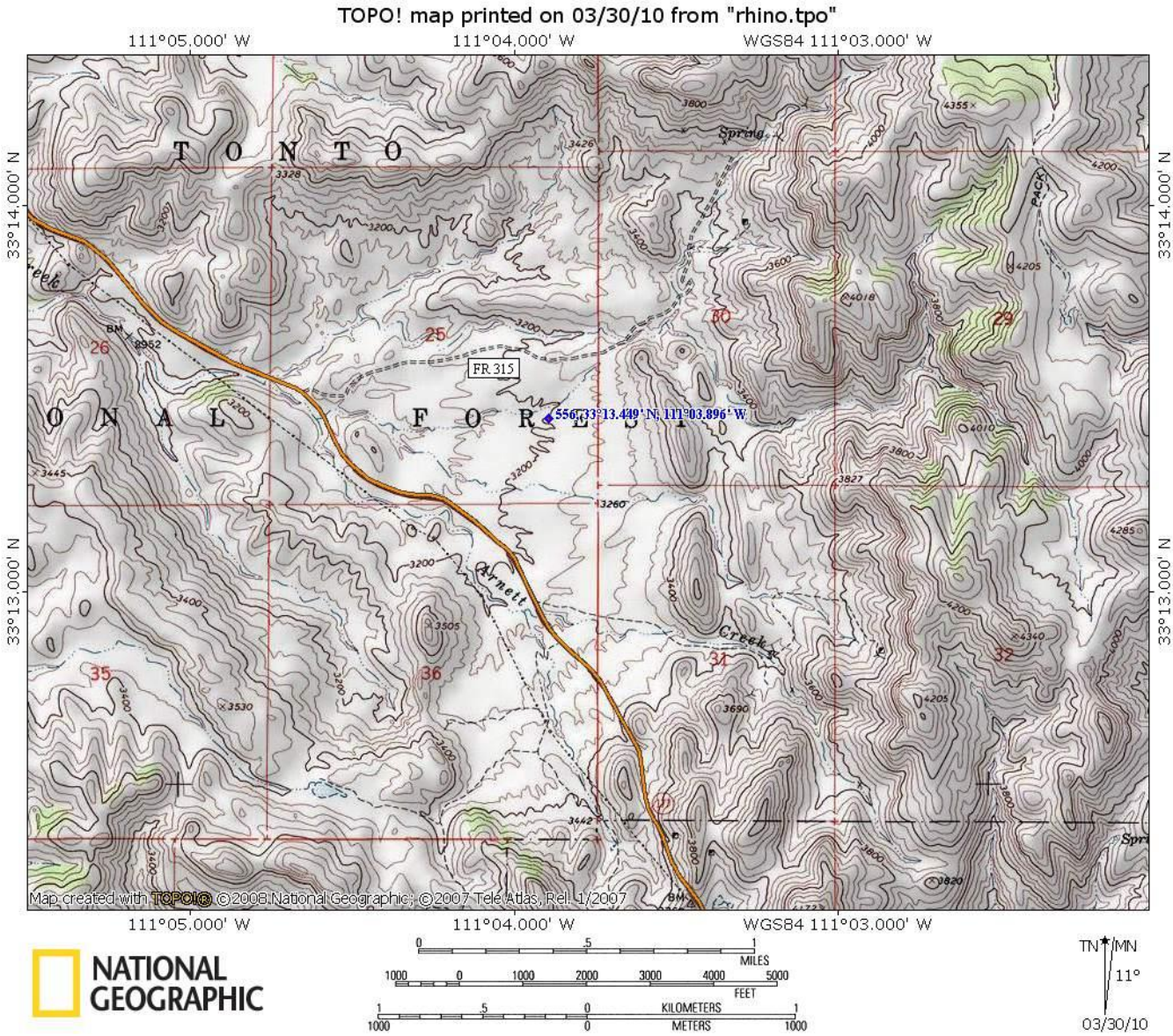
PROJECT DESCRIPTION AND STRATEGIES:

- Install four 53"x8'x13" polyethylene tank with capacity of approximately 2,500 gallons.
- Construct a 24' x 72' metal apron over tank, attached to metal framework.
- Install a 4'x5'x8 walk in trough to replace the older smaller step style drinker.
- Replace existing degraded plumbing components with durable PVC piping and fittings
- Replace barbed wire fence with metal pipe-rail.
-

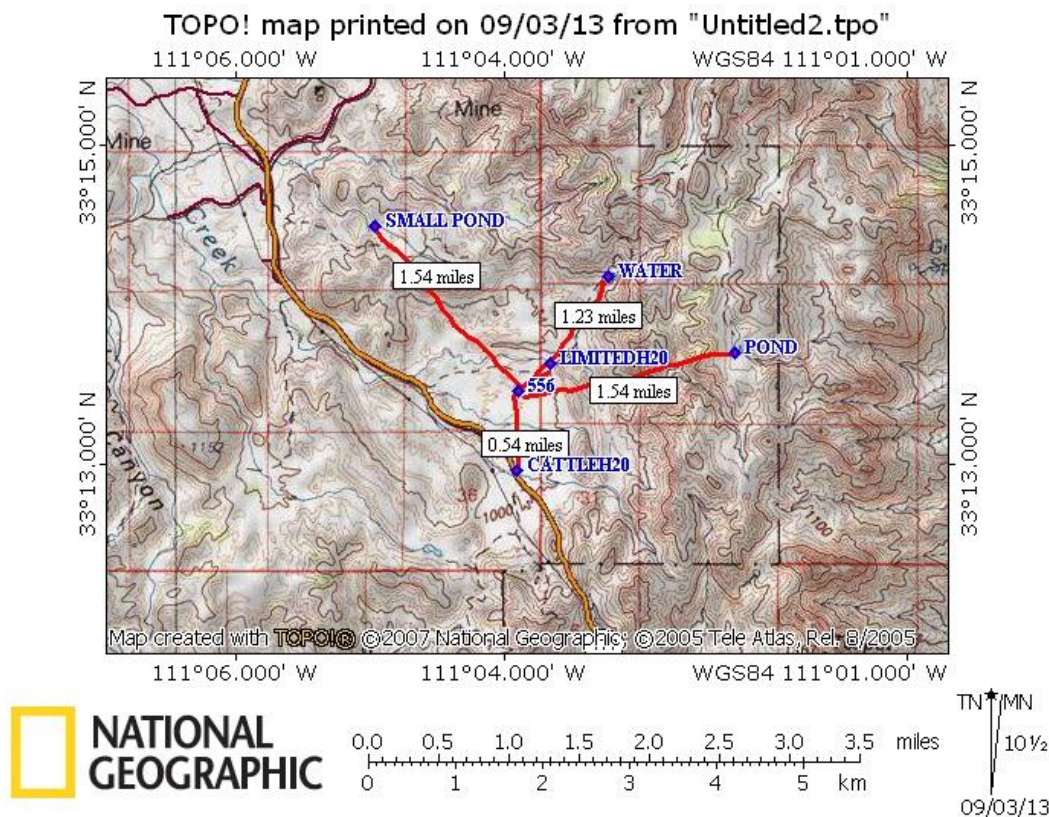
PROJECT LOCATION:

PROJECT LOCATION	LANDOWNER AND/OR SITE NAME	TOWNSHIP	RANGE	SEC.	UTM (meters) / GPS COORDINATES	
					(Northing / Lat.)	(Easting / Long.)
	Redevelopment of catchment #556				33°13.553	111°03.939

PROJECT AREA



Distances of other water sources that include seasonal and perennial



Two of the waters are designed for cattle and don't run year round. The other available water sources are not reliable because they are prone to drying up during hot prolonged droughts. Most of the waters are over a mile away with the exception of a cattle trough that doesn't run year round.

LAND OWNERSHIP AT THE PROJECT SITE(S):

(if the project area is private property, please state specifically and provide the landowner's name)

- US Forest Service, Tonto National Forest, Globe Ranger District

IF PRIVATE PROPERTY, IS THERE A COOPERATIVE BIG GAME STEWARDSHIP or LANDOWNER AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?

YES[] NO[] N/A[x]

HABITAT DESCRIPTION:

Sonoran Desert Scrub at about 3,220' elevation

ITEMIZED USE OF FUNDS:

Cost of materials are as followed:

- 53" deep X 8' dia X 13" long polyethylene water storage (2,500 Gallons) = \$3,000 (x4 per catchment = \$12,000)
- 4' deep X 5 wide x 8' long wide Standard polyethylene Walk-in Trough = \$3,294
- 24' X 72' Apron Package = \$5,925
- 150' X 150' Piperail Fence = \$3,390
- 3' Sch. 80 PVC plumbing and Valves = \$1,500
- Miscellaneous materials = \$500

Total project material cost would be approximately \$26,609

Special Big Game License Tag Funds

This proposal's requested funds pending approval - \$30,365

Cost Share or Matching Funds (for volunteer labor rates please refer to the worksheet below)

USFS Globe Ranger District ARCH and NEPA Clearances Time and Labor = \$20/hr x 40hrs = \$800

AGFD WM Danny Rodriguez Time and labor HPC write up - @ \$19 x 40 hrs = \$760

Volunteer mileage - @ 0.44 cents a mile x estimated 750 miles per volunteer travel = \$330

Volunteer labor at \$12/hr x 16hours = \$192/per person (estimated 10 volunteers) = \$1,920

Totaled= \$3,810

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

AGFD- potential participation including labor and materials

USFS- potential participation include NEPA, EA, ARPA, and other necessary paperwork required to complete compliance.

ADA- potential participation by providing volunteers to aide with construction

MDF- potential participation by providing volunteers to aide with construction

WOULD IMPLEMENTATION OF THIS PROJECT ASSIST IN PROVIDING, MAINTAINING, OR FACILITATING RECREATIONAL ACCESS?

YES[] NO[x] N/A[]

PROJECT MONITORING PLAN:

The district Wildlife manager will monitor for water levels and perform any minor maintenance needed.

PROJECT MAINTENANCE:

The district Wildlife Manager will perform the basic maintenance and will submit a work order for

major maintenance.

PROJECT COMPLETION REPORT TO BE FILED BY:

Danny Rodriguez, AZGFD

WATER DEVELOPMENT PROJECTS *(please use the worksheet below):*

**ARIZONA GAME AND FISH DEPARTMENT
WATER DEVELOPMENT WORKSHEET**

PROJECT NAME: Redevelopment of AGFD Catchment 556

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”**

No

- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Joe Currie, AZGFD-May 2010

- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**

 2-4 4-6 6-8 X 8-10 10-12 12-14 14-16 >16

- 4) **Is there a perennial water source available to big game within four miles of this project?**

 X YES (please complete #5 below) NO (skip #5 below)

NOTE-cattle troughs are supposed to be running year round but that's not always the case

- 5) **For the accessible, perennial water source nearest this project:**

Name of water source: permittee's drinkers

Type of water source (catchment, spring, dirt tank, etc.): trough

Ownership of water source: USFS permittee

Distance in miles from project: 1 mile (respectively)

- 6) **Is the target wildlife species a result of transplant efforts?** YES NO

- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner.**

n/a

- 8) **Please provide the following information about access to the proposed site:**

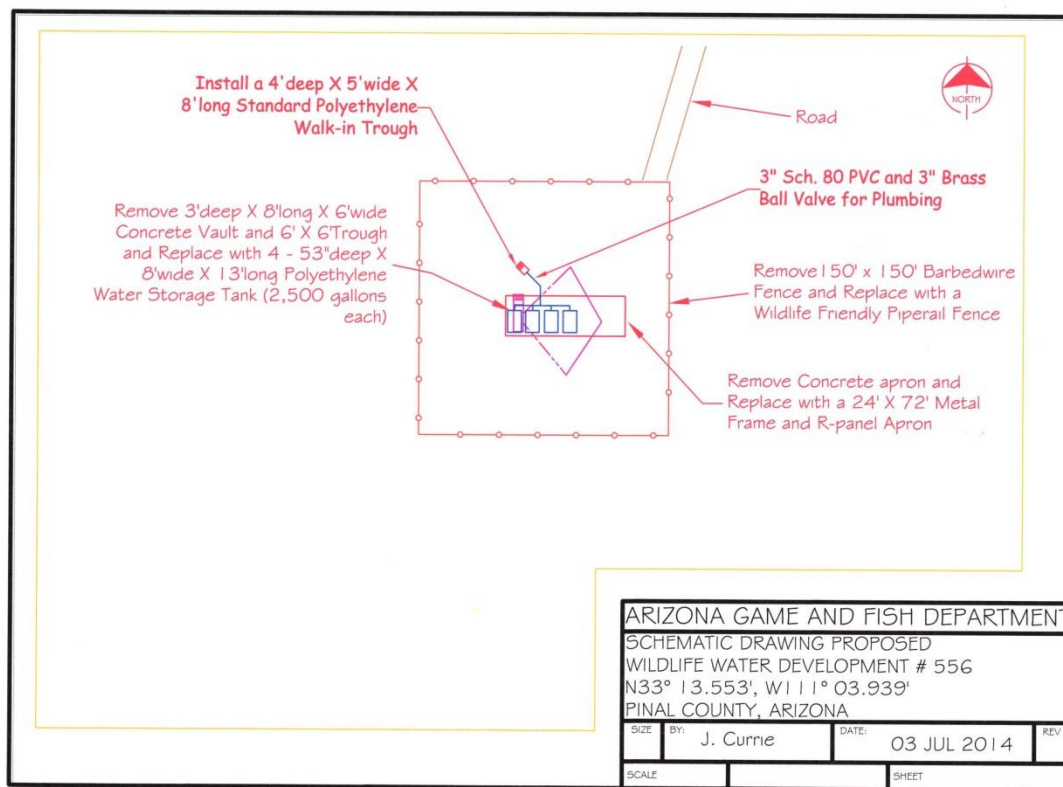
Type of access (mark one): X 2x4 vehicles 4x4 only foot only**

**If foot access only: Distance in miles: Approx. hiking time:

-- Does access to this site require crossing private or tribal lands? YES X NO

-- Please describe any restrictions to public access:

9) Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.



Cost of materials are as followed:

- 53" deep X 8' dia X 13" long polyethylene water storage (2,500 Gallons) = \$3,000 (x4 per catchment = \$12,00)
- 4' deep X 5 wide x 8' long wide Standard polyethylene Walk-in Trough = \$3,294
- 24' X 72' Apron Package = \$5,925
- 150' X 150' Piperrail Fence = \$3,390
- 3' Sch. 80 PVC plumbing and Valves = \$1,500
- Miscellaneous materials = \$500

Total project material cost would be approximately \$26,609

10) Was a site visit completed? X Yes ___ No

If Yes, please list personnel that attended and date.

Joe Currie, AZGFD, May 2010